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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number Filing Date First Named Inventor Group Art Unit Examiner Name Attorney Docket Number	10/664,421 09/16/2003 Ryan Bremer 039363-0703
Sheet	1	of	1



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
NN	A1	2004/0106615		Cochran et al	06-03-2004	
NN	A2	2004/0109868		Rothman et al.	06-10-2004	
NN	A3	2004/0146942		Weihe et al.	07-29-2004	
NN	A4	2004/0192696		Green et al.	09-30-2004	

FOREIGN PATENT DOCUMENTS								
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
NN	A5	WO	2004/090106		Vertex Pharmaceuticals Incorporated	10-21-2004		

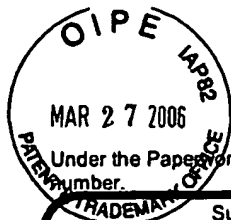
NON PATENT LITERATURE DOCUMENTS			
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NN	A6	Koike et al., Identification of heterochromatin protein 1 (HP1) as a phosphorylation target by Pim-1 kinase and the effect of phosphorylation on the transcriptional repression function of HP1 ¹ . FEBS Letters, 467, 17-21 (2000).	
NN	A7	Maita et al., PAP-1, a novel target protein of phosphorylation by Pim-1 kinase. Eur. J. Biochem., 267: 5168-5178, (2000).	
NN	A8	Winn et al., Pim-1 phosphorylates the DNA binding domain of c-Myb. Cell Cycle, 2:258-262, (2003)	
NN	A9	International Search Report for international application PCT/US2003/29415	

Examiner Signature	 /Nabhaat Nashed/ (05/22/2006)	Date Considered	
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**INFORMATION DISCLOSURE
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Application Number	10/664421
Filing Date	9/16/03
First Named Inventor	Bremer
Group Art Unit	1656
Examiner Name	Nashed
Attorney Docket Number	039363-0703

Sheet 1 of 2

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NN	A1	5698401		Fesik et al.	12-16-1997	
NN	A2	5804390		Fesik et al.	09-08-1998	
NN	A3	6297021		Nienaber et al.	10-02-2001	

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U.S. PATENT APPLICATION DOCUMENTS

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NN	A4	WO	99/63931		The Salk Institute for Biological Studies	12-16-1999		

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NN	A5	Ashani and Wilson, A covalent affinity column for the purification of acetylcholinesterase. Biochem. Biophys. Acta, 276:317-322, 1972.	
NN	A6	Feinberg et al., Zinc-directed inhibitors for zinc proteinases. Acta Cryst., D51: 428-449, 1995.	

Examiner Signature

/Nashed Nashed/ (05/22/2006)

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				First Named Inventor	Bremer
				Group Art Unit	1656
				Examiner Name	Nashed
Sheet	2	of	2	Attorney Docket Number	039363-0703

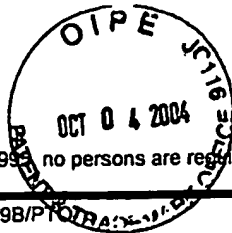
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NN	A7	Fitzgerald et al., Crystallographic analysis of a complex between human immunodeficiency virus type 1 protease and acetyl-pepstatin at 2.0-A resolution. The Journal of Biological Chemistry, 265 (24): 14209-14219, 1990.			
NN	A8	Geller et al., HIV-1 protease and its inhibitors in Theoretical and Computational Mthods in Genome Research. Edited by Sahai. New York: Plenum Press, 1997, p. 237-254.			
NN	A9	Kleinberg and Wanke, New approaches and technologies in drug design and discovery. Am. J. Health-Syst Pharm., 52: 1323-1336, 1995.			
NN	A10	McPherson et al., The Role of X-ray crystallography in structure-based rational drug designs. Chapter 6 in Chemical Structures Approaches Ration. Drug Design. Edited by D.V. Weiner et al. Boca Raton: CRC Press, 1995, p. 161-179.			
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NN	A12	Sica et al., Affinity chromatography and the purification of estrogen receptors. The Journal of Biological Chemistry, 248 (18): 6543-6558, 1973.			
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Application Number 10/664,421
 Filing Date 09/16/2003
 First Named Inventor Ryan BREMER
 Group Art Unit
 Examiner Name
 Attorney Docket Number 039363-0703

Sheet 1 of 26

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		Number	Kind Code ² (if known)			
NN	A1	4,150,949		Smith	04-24-1979	
	A2	4,568,649		Bertoglio-Matte	02-04-1986	
	A3	4,626,513		Burton et al.	12-02-1986	
	A4	5,143,854		Pirung et al.	09-01-1992	
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	A33	5,959,098		Goldberg et al.	09-28-1999	
	A34	5,965,452		Kovacs	10-12-1999	
	A35	6,013,440		Lipshultz et al.	01-11-2000	
	A36	6,022,963		McGall et al.	02-08-2000	
	A37	6,025,155		Hadlaczky et al.	02-15-2000	
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				First Named Inventor	Ryan BREMER
				Group Art Unit	
Examiner Name					
Sheet	2	of	26	Attorney Docket Number	039363-0703

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NN ↓ NN	A39		6,048,695		Bradley et al.
	A40		6,054,270		Southern
	A41		6,090,912		Lebl et al.
	A42		6,096,718		Weitzman et al.
	A43		6,107,478		Pedersen et al.
	A44		6,110,456		During
	A45		6,110,458		Freeman et al.
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	A47		6,117,681		Salmons et al.
	A48		6,178,384		Kolossvary
	A49		6,243,980		Bronstein et al.
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NN ↓ NN	A56	WO	95/09847		Ciba-Geigy AG	04-13-1995		
	A57	WO	96/17958		The Regents of the University of California	06-13-1996		
	A58	WO	96/18738		Sugen, Inc.	06-20-1996		
	A59	WO	97/46313		Array Technologies	12-11-1997		
	A60	WO	99/09217		Hyseq, Inc.	02-25-1999		
	A61	WO	99/51773		Phylos, Inc.	10-14-1999		
	A62	EP	0154734		Immunex Corporation	08-29-1990		

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NN	A73	BLUNDELL <i>et al.</i> , "Knowledge-Based Protein Modeling and Design," <i>Eur. J. Biochem.</i> 172:513 (1988)	

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NN ↓	A74	BÖHM, "On the Use of LUDI to Search the Fine Chemicals Directory for Ligands of Proteins of Known Three-Dimensional Structure," <i>J. Comp. Aided Molec. Design</i> 8:623 (1994)	
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	A80	BUCHSCHER and PANGANIBAN, "Human Immunodeficiency Virus Vectors for Inducible Expression of Foreign Genes," <i>J. Virol.</i> 66:2731-2739 (1992)	
NN	A81	CAPON, <i>et al.</i> , "Designing CD4 Immunoadhesins for AIDS Therapy," <i>Nature</i> 377:525-531 (1989)	

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		Application Number	10/664,421
		Filing Date	09/16/2003
		First Named Inventor	Ryan BREMER
		Group Art Unit	
Examiner Name			
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		Attorney Docket Number	039363-0703

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NN	A82	CARELL <i>et al.</i> , "New Promise in Combinatorial Chemistry: Synthesis, Characterization, and Screening of Small-Molecule Libraries Solution," <i>Chem. Biol.</i> 3:171-183 (1995)	
	A83	CHABALA, "Solid-Phase Combinatorial Chemistry and Novel Tagging Methods for Identifying Leads," <i>Curr Opin Biotechnol</i> 6(6):633-639 (1995)	
	A84	CHECOVICH <i>et al.</i> , "Fluorescence Polarization – a New Tool for Cell and Molecular Biology," <i>Nature</i> 375:254-256 (1995)	
	A85	CHEN <i>et al.</i> "Pim Serine/Threonine Kinases Regulate the Stability of Socs-1 Protein," <i>Proceedings of the National Academy of Sciences of the United States of America</i> 99(4):2175-2180 (2002)	
	A86	CLARK <i>et al.</i> , "PRO-LIGAND: An Approach to De Novo Molecular Design. 1. Application to the Design of Organic Molecules," <i>J. Comp. Aided Molec. Design</i> 9:13 (1995)	
	A87	COBB <i>et al.</i> , "Stable Association of pp60 ^{src} and pp59 ^{lyn} with the Focal Adhesion-Associated Protein Tyrosine Kinase, pp125 ^{FAK} ," <i>Mol. Cell. Biol.</i> 14(1):147-155 (1994)	
	A88	COE and STORER, "Solution-phase combinatorial chemistry," <i>Molecular Diversity</i> , 4:1-38, 1999.	
NN	A89	COLLIUOD, "Oriented and Covalent Immobilization of Target Molecules to Solid Supports: Synthesis and Application of a Light-Activatable and Thiol-Reactive Cross-Linking Reagent," <i>Bioconjugate Chem.</i> 4:528-536 (1993)	

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NN	A90	COLMAN, "Structure-Based Drug Design," <i>Current Opinion in Struc. Biol.</i> 4:868 (1994)	
	A91	COTRAN et al., "Healing and Repair," Robbins Pathologic Basis of Disease, 4 th Edition, p. 75, (1989)	
	A92	CREIGHTON, "An Empirical Approach to Protein Conformation Stability and Flexibility," <i>Biopolymers</i> 22(1):49-58 (1983)	
	A93	CUYPERS, et al., "Murine Leukemia Virus-Induced T-Cell Lymphomagenesis: Integration of Provirus in a Distinct Chromosomal Region," <i>Cell</i> , Vol. 37, pp. 141-150, (1984)	
	A94	CWIRLA et al., "Peptides on Phage: A Vast Library of Peptides for Identifying Ligands," <i>Biochemistry</i> 87:6378-6382 (1990)	
	A95	DANDLIKER, et al., "Equilibrium and Kinetic Inhibition Assays Based Upon Fluorescence Polarization," <i>Methods in Enzymology</i> 74:3-28 (1981)	
	A96	DIKIC et al., "A Role For Pyk2 and Src in Linking G-Protein-Coupled Receptors with MAP Kinase Activation," <i>Nature</i> 383:547-550 (1996)	
NN	A97	DOBELI, "Recombinant Fusion Proteins for the Industrial Production of Disulfide Bridge Containing Peptides: Purification, Oxidation Without Concatamer Formation, and Selective Cleavage," <i>Protein Expr. Purif.</i> 12:404-414 (1998)	

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NN ↓ NN	A98	DOLLE and NELSON, "Comprehensive Survey of Combinatorial Library Synthesis: 1998," <i>J Comb Chem</i> 1(4):235-282 (1999)	
	A99	DOLPHIN, "G Protein Modulation of Calcium Currents in Neurons," <i>Ann. Rev. Physiol.</i> 52:243-255 (1990)	
	A100	DOMEN, <i>et al.</i> , "Pim-1 Levels Determine the Size of Early B Lymphoid Compartments in Bone Marrow," <i>The Journal of Experimental Medicine</i> 178(5):1665-1673 (1993)	
	A101	DUONG <i>et al.</i> , "PYK2 in Osteoclasts is an Adhesion Kinase, Localized in the Sealing Zone, Activated by Ligation of $\alpha_v\beta_3$ Integrin, and Phosphorylated by Src Kinase," <i>J Clin Invest.</i> 102:881-892 (1998)	
	A102	EICHMANN <i>et al.</i> , "Developmental Expression of Pim Kinases Suggests Functions Also Outside of the Hematopoietic System," <i>Oncogene</i> 19:1215-1224 (2000)	
	A103	ELISEEV and LEHN, "Dynamic Combinatorial Chemistry: Evolutionary Formation and Screening of Molecular Libraries," <i>Current Topics in Microbiology & Immunology</i> 243:159-172 (1999)	
	A104	ENJALBAL <i>et al.</i> , "Mass Spectrometry in Combinatorial Chemistry," <i>Mass Spectrometry Reviews.</i> 19:139-161 (2000)	
NN	A105	FENG <i>et al.</i> , "Stable in Vivo Gene Transduction Via a Novel Adenoviral/Retroviral Chimeric Vector," <i>Nature Biotechnology</i> 15:866-870 (1997)	

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NN	A106	FISCHER and SCHONBRUNN, "The Bombesin Receptor is Coupled to a Guanine Nucleotide-Binding Protein Which is Insensitive to Pertussis and Cholera Toxins," <i>J. Biol. Chem.</i> , 263(6):2808-2816 (1988)	
	A107	FIVASH <i>et al.</i> , "BIAcore for Macromolecular Interaction," <i>Current Opinion in Biotechnology</i> 9:97-101 (1998)	
	A108	FREIDINGER RM., "Nonpeptidic Ligands for Peptide and Protein Receptors," <i>Current Opinion in Chemical Biology</i> 3:395-406 (1999)	
	A109	FRUCHT, <i>et al.</i> , "Characterization of Functional Receptors for Gastrointestinal Hormones on Human Colon Cancer Cells," <i>Cancer Research</i> , 52:1114-1122 (1992)	
	A110	GALLOP <i>et al.</i> , "Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries," <i>J. Med. Chem.</i> , 37:1233-1251 (1994)	
	A111	GILMAN, A., "G Proteins: Transducers of Receptor-Generated Signals," <i>Ann. Rev. Biochem.</i> 56:615-649 (1987)	
	A112	GOODFORD, P., "A Computational Procedure for Determining Energetically Favorable Binding Sites on Biologically Important Macromolecules," <i>J. Med. Chem.</i> 28:849-857 (1985)	
 NN	A113	GOODSELL and OLSON, "Automated Docking of Substrates to Proteins by Simulated Annealing," <i>Proteins: Structure, Function, and Genetics</i> 8:195-202 (1990)	

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NN ↓	A114	GORDON <i>et al.</i> , "Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions," <i>J. Med. Chem.</i> , 37:1385-1401 (1994)	
	A115	GORDON and FORD, "Detection of Peroxides and Their Removal," <i>The Chemist's Companion: A Handbook Of Practical Data, Techniques, And References</i> , John Wiley and Sons, p. 437 (1972)	
	A116	GRAM H., "Phage Display in Proteolysis and Signal Transduction," <i>Combinatorial Chemistry & High Throughput Screening</i> 2:19-28 (1999)	
	A117	GRAVERT and JANDA, "Synthesis on Soluble Polymers: New Reactions and the Construction of Small Molecules," <i>Curr. Opin. Chem. Biol.</i> 1(1):107-13 (1997)	
	A118	GREER, J., "Model Structure for the Inflammatory Protein C5a," <i>Science</i> 228:1055-1060 (1985)	
	A119	GUIDA, C., "Software for Structure-Based Drug Design," <i>Current Opinion in Struc. Biol.</i> 4:777-781 (1994)	
	A120	GUMBINER, B., "Proteins Associated with the Cytoplasmic Surface of Adhesion Molecules," <i>Neuron</i> , 11:551-564 (1993)	
NN	A121	HAFNER <i>et al.</i> , "Isothermal Amplification and Multimerization of DNA by <i>Bst</i> DNA Polymerase," <i>Biotechniques</i> 30:852-856 (2001)	

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NN	A122	HANDS, et al., "A Convenient Method for the Preparation of 5-, 6- and 7-Azaindoles and Their Derivatives," <i>Synthesis</i> , pp. 877-882 (1996).	
	A123	HANSELMAN et al., "A cDNA-Dependant Scintillation Proximity Assay for Quantifying Apolipoprotein A-1," <i>J. Lipid Res.</i> 38:2365-2373 (1997)	
	A124	HARTMANN, H., "Moleküldesign Bei Fluoreszenzfarbstoffen," <i>Chimia</i> , 48:512-514 (1994)	
	A125	HAUCK, et al., "Focal Adhesion Kinase Functions as a Receptor-Proximal Signaling Component Required for Directed Cell Migration," <i>Immunol Res.</i> 21:293-303 (2000)	
	A126	HEIM and TSIEN, "Engineering Green Fluorescent Protein for Improved Brightness, Longer Wavelengths and Fluorescence Resonance Energy Transfer," <i>Curr. Biol.</i> 6:178-182 (1996)	
	A127	HENDRICKSON et al., "Phase Determination from Multiwavelength Anomalous Diffraction Measurements," <i>Methods of Enzymology</i> 276:494-523 (1997)	
	A128	HENDRICKSON et al., "Selenomethionyl Proteins Produced for Analysis by Multiwavelength Anomalous Diffraction (MAD): a Vehicle for Direct Determination of Three-Dimensional Structure," <i>The EMBO Journal</i> 9(5):1665-1672 (1990)	
NN	A129	HILDEBRAND, et al., "Identification of Sequences Required for the Efficient Localization of the Focal Adhesion Kinase, ppl125 ^{FAK} , to Cellular Focal Adhesions," <i>J. Cell Biol.</i> 123(4):993-1005 (1993)	

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NN	A130	HILDEBRAND, <i>et al.</i> , "An SH3 Domain-Containing GTPase-Activating Protein for Rho and Cdc42 Associates with Focal Adhesion Kinase," <i>Mol Cell Biol</i> , 16:3169-3178 (1996)	
	A131	HILLE, B., "G Protein-Coupled Mechanisms and Nervous Signaling," <i>Neuron</i> , 9:187-195 (1992)	
	A132	HOUGHTEN <i>et al.</i> , "Generation and Use of Synthetic Peptide Combinatorial Libraries for Basic Research and Drug Discovery," <i>Nature</i> , 354:84-86 (1991)	
	A133	HOUGHTEN, R., "Peptide Libraries: Criteria and Trends," <i>Trends Genet.</i> , 9:235-239 (1993)	
	A134	HOUGHTON, "Parallel Array and Mixture-Based Synthetic Combinatorial Chemistry: Tools for the Next Millennium," <i>Annu Rev Pharmacol Toxicol</i> 40:273-82 (2000)	
	A135	HUANG, <i>et al.</i> , "Tyrosine Kinase-Dependant Suppression of a Potassium Channel by the G Protein-Coupled m1 Muscarinic Acetylcholine Receptor," <i>Cell</i> , 75:1145-1156 (1993)	
NN	A136	HUGHES-JONES <i>et al.</i> , "Synthesis of Rh Fv Phage-Antibodies Using VH and VL Germline Genes," <i>British Journal of Haematology</i> 105:811-816 (1999)	
	A137	HYNES, R., "Integrins: Bidirectional, Allosteric Signaling Machines," <i>Cell</i> , 110:673-687 (2002)	

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NN	A138	IWANE, <i>et al.</i> , "Myosin Subfragment-1 is Fully Equipped with Factors Essential for Motor Function," <i>Biophys. Biochem. Res. Comm.</i> 230:76-80 (1997)		
	A139	JOHANN, <i>et al.</i> , "GLVR1, a Receptor for Gibbon Ape Leukemia Virus, is Homologous to a Phosphate Permease of <i>Neurospora Crassa</i> and is Expressed at High Levels in the Brain and Thymus," <i>J. Virol.</i> 66:1635-1640 (1992)		
	A140	JOHNSTON, M., "Gene Chips: Array of Hope for Understanding Gene Regulation," <i>Curr. Biol.</i> 8:R171-R174 (1998)		
	A141	JONES, T., "Interactive Computer Graphics: FRODO," <i>Methods in Enzymology</i> 115:157-171 (1985)		
	A142	JOSEPH-MCCARTHY, D., "Computational Approaches to Structure-Based Ligand Design," <i>Pharmacology & Therapeutics</i> 84:179-191 (1999)		
NN	A143	KAHL <i>et al.</i> , "A Multiple-Approach Scintillation Proximity Assay to Measure the Association Between Ras and Raf," <i>Anal. Biochem.</i> 243:282-283 (1996)		
	A144	KERN and HAMPTON, "Direct Hybridization of Large-Insert Genomic Clones on High-Density Gridded cDNA Filter Arrays," <i>Biotechniques</i> 23:120-124 (1997)		
	A145	KIM H. and KAHN, M., "A Merger of Rational Drug Design and Combinatorial Chemistry: Development and Application of Peptide Secondary Structure Mimetics," <i>Combinatorial Chemistry & High Throughput Screening</i> 3:167-183 (2000)		

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
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		Application Number	10/664,421		
		Filing Date	09/16/2003		
		First Named Inventor	Ryan BREMER		
		Group Art Unit			
Examiner Name					
Sheet	13	of	26	Attorney Docket Number	039363-0703

NON PATENT LITERATURE DOCUMENTS			
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NN	A146	KIRKPATRICK, <i>et al.</i> , "Structure-Based Drug Design: Combinatorial Chemistry and Molecular Modeling," <i>Combinatorial Chemistry & High Throughput Screening</i> 2:211-221 (1999)	
	A147	KLINE <i>et al.</i> , "Studies by ¹ H Nuclear Magnetic Resonance and Distance Geometry of the Solution Conformation of the x-Amylase Inhibitor Tendamistat," <i>J. Mol. Biol.</i> 189:377-382 (1986)	
	A148	KNIGHTON <i>et al.</i> , "Structural Basis of the Intrasteric Regulation of Myosin Light Chain Kinases," <i>Science</i> 258:130-135 (1992)	
	A149	KOIKE <i>et al.</i> , "Identification of Heterochromatin Protein 1 (HP1) as a Phosphorylation Target by Pim-1 Kinase and the Effect of Phosphorylation on the Transcriptional Repression Function of HP1," <i>FEBS Letters</i> , 476:17-21 (2000)	
	A150	KOLASKAR and TONGAONKAR, "A Semi-Empirical Method for Prediction of Antigenic Determinants on Protein Antigens," <i>FEBBS Lett.</i> 276(1-2):172-174 (1990)	
	A151	KONIETZKO <i>et al.</i> , "Pim Kinase Expression is Induced by LTP Stimulation and Required for the Consolidation of Enduring LTP," <i>The EMBO Journal</i> 18:3359-3369 (1999)	
	A152	KROLL, <i>et al.</i> , "A Multifunctional Prokaryotic Protein Expression System: Overproduction, Affinity Purification, and Selective Detection," <i>DNA Cell. Biol.</i> 12:441-453 (1993)	
NN	A153	KUNDU <i>et al.</i> , "Combinatorial Chemistry: Polymer Supported Synthesis of Peptide and Non-Peptide Libraries," <i>Progress in Drug Research</i> 53:89-156 (1999)	

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NN	A154	KUNKEL, T., "Rapid and Efficient Site-Specific Mutagenesis Without Phenotypic Selection," <i>Proc. Natl. Acad. Sci.</i> 82:488-492 (1985)		
	A155	KUNTZ, <i>et al.</i> , "Structure-Based Molecular Design," <i>Acc. Chem. Res.</i> 27:117 (1994)		
	A156	KUNTZ <i>et al.</i> , "A Geometric Approach to Macromolecule-Ligand Interactions," <i>J. Mol. Biol.</i> 162:269 (1982)		
	A157	LAIRD, <i>et al.</i> , "In Vivo Analysis of Pim-1 Deficiency," <i>Nucleic Acids Research</i> 21(20):4750-4755 (1993)		
	A158	LAKKAKORPI, <i>et al.</i> , "Stable Association of PYK2 and p130 ^{Cas} in Osteoclasts and Their Co-Localization in the Sealing Zone," <i>J Biol Chem</i> , 274:4900-4907 (1999)		
	A159	LAM <i>et al.</i> , "A New Type of Synthetic Peptide Library for Identifying Ligand-Binding Activity," <i>Nature</i> , 354:82-84 (1991)		
NN	A160	LEBL <i>et al.</i> , "One-Bead-One-Structure," <i>Biopolymers (Peptide Science)</i> 37:177-198 (1995)		
	A161	LEV, <i>et al.</i> , "Protein Tyrosine Kinase PYK2 Involved in Ca ²⁺ -Induced Regulation of Ion Channel and MAP Kinase Functions," <i>Nature</i> 376:737-745 (1995)		

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NN	A162	LI and EARP, "Paxillin is Tyrosine-Phosphorylated by and Preferentially Associates With the Calcium-Dependent Tyrosine Kinase in Rat Liver Epithelial Cells," <i>J Biol Chem</i> , 272:14341-14348 (1997)	
	A163	LIANG <i>et al.</i> , "Ubiquitous Expression and Cell Cycle Regulation of the Protein Kinase PIM-1," <i>Archives of Biochemistry and Biophysics</i> 33(2):259-265 (1996)	
	A164	LILLY <i>et al.</i> , "The PIM-1 Serine Kinase Prolongs Survival and Inhibits Apoptosis-related Mitochondrial Dysfunction in Part Through a <i>bcl-2</i> -dependent Pathway," <i>Oncogene</i> 18:4022-4031 (1999)	
	A165	LIPAROTO and CIARDELLI, "Biosensor Analysis of the Interleukin-2 Receptor Complex," <i>Journal of Molecular Recognition</i> 12:316-321 (1999)	
	A166	LIPINSKI <i>et al.</i> , "Experimental and Computational Approaches to Estimate Solubility and Permeability in Drug Discovery and Development Settings," <i>Advanced Drug Delivery Reviews</i> 23:3-25 (1997)	
	A167	LIPSCHULTZ <i>et al.</i> , "Experimental Design for Analysis of Complex Kinetics Using Surface Plasmon Resonance," <i>Methods</i> 20(3):310-318 (2000)	
NN	A168	LU, <i>et al.</i> , "Oriented Immobilization of Fab' Fragments on Silica Surfaces," <i>Anal. Chem.</i> 67:83-87 (1995)	
	A169	MADDEN <i>et al.</i> , "Synthetic Combinatorial Libraries: Views on Techniques and Their Application," <i>Perspectives in Drug Discovery and Design</i> 2:269-282 (1995)	

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NN ↓ NN	A170	MALMBORG and BORREBAECK, "BIAcore as a Tool in Antibody Engineering," <i>Journal of Immunological Methods</i> 183:7-13 (1995)	
	A171	MALMQVIST <i>et al.</i> , "Biomolecular Interaction Analysis: Affinity Biosensor Technologies for Functional Analysis of Proteins," <i>Current Opinion in Chemical Biology</i> 1:378-383 (1997)	
	A172	MALMQVIST, M., "BIACORE: An Affinity Biosensor System for Characterization of Biomolecular Interactions," <i>Biochemical Society Transactions</i> 27:335-340 (1999)	
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	A174	MARTIN, Y., "Computer-Assisted Rational Drug Design," <i>Methods Enz.</i> 203:587-613 (1991)	
	A175	McCALL, <i>et al.</i> , "Characterization of Anti-Mouse Fc Gamma RII Single-Chain Fv Fragments Derived From Human Phage Display Libraries," <i>Immunotechnology</i> 4:71-87 (1998)	
	A176	McPHERSON, A., "Current Approaches to Macromolecular Crystallization," <i>Eur. J. Biochem.</i> 189:1-23 (1990)	
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NN	A178	MEEKER <i>et al.</i> , "Cloning and Characterization of the Human PIM-1 Gene: A Putative Oncogene Related to the Protein Kinases," <i>Journal of Cellular Biochemistry</i> 35:105-112 (1987)	
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	A180	MENG <i>et al.</i> , "Automated Docking With Grid-Based Energy Evaluation," <i>J. Comput. Chem.</i> 13:505-524 (1992)	
	A181	MEROUR and JOSEPH, "Synthesis and Reactivity of 7-Azaindoles (1 <i>H</i> -Pyrrolo [2,3- <i>b</i>] pyridine)," <i>Current Organic Chemistry</i> 5:471-506 (2001)	
	A182	MERRITT, J., "Solution Phase Combinatorial Chemistry," <i>Comb Chem High Throughput Screen</i> 1(2):57-72 (1998)	
	A183	MIKOVITS <i>et al.</i> , "Potential Cellular Signatures of Viral Infections in Human Hematopoietic Cells," <i>Disease Makers</i> 17:173-178 (2001)	
	A184	MILLER <i>et al.</i> , "FLOG: A System to Select 'Quasi-Flexible' Ligands Complementary to a Receptor of Known Three-Dimensional Structure," <i>J. Comp. Aided Molec. Design</i> 8:153 (1994)	
NN	A185	MIRANKER and KARPLUS, "Functionality Maps of Binding Sites: A Multiple Copy Simultaneous Search Method," <i>Proteins: Structure, Function, and Genetics</i> 11:29-34 (1991)	

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NN	A186	MITRA <i>et al.</i> , "Fluorescence Resonance Energy Transfer Between Blue-Emitting and Red-Shifted Excitation Derivatives of the Green Fluorescent Protein," <i>Gene</i> 173:13-17 (1996)	
	A187	MOCHIZUKI <i>et al.</i> , "Physical and Functional Interactions Between Pim-1 Kinase and Cdc25A Phosphatase," <i>The Journal of Biological Chemistry</i> 274:8659-18666 (1999)	
	A188	NAGAR <i>et al.</i> , "Crystal Structures of the Kinase Domain of c-Abl in Complex with the Small Molecular Inhibitors PD173955 and Imatinib (STI-571)," <i>Cancer Research</i> 62:4236-4243 (2002)	
	A189	NAGARAJAN <i>et al.</i> , "Localization of the Human Pim Oncogene (PIM) to a Region of Chromosome 6 Involved in Translocations in Acute Leukemias," <i>Proceedings of the National Academy of Sciences of the United States of America</i> 83(8):2556-2560 (1986)	
	A190	NAVAZA, J., "AMoRe: An Automated Package for Molecular Replacement," <i>Acta Crystallogr.</i> A50:157-163 (1994)	
	A191	NEIDLE and JENKINS, "Molecular Modeling to Study DNA Interaction by Anti-Tumor Drugs," <i>Methods Enz.</i> 203:433-458 (1991)	
	A192	NG, <i>et al.</i> , "Engineering Protein-Lipid Interactions: Targeting of Histidine-Tagged Proteins to Metal-Chelating Lipid Monolayers," <i>Langmuir</i> 11:4048-4055 (1995)	
NN	A193	NICHOLLS <i>et al.</i> , "Protein Folding and Association: Insights From the Interfacial and Thermodynamic Properties of Hydrocarbons," <i>Proteins</i> 11:281-296 (1991)	

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NN	A194	NICHOLS <i>et al.</i> , "Development of a Scintillation Proximity Assay for Peroxisome Proliferator-Activated Receptor γ Ligand Binding Domain," <i>Anal. Biochem.</i> 257:112-119 (1998)	
	A195	O'SHANNESSY and WINZOR, "Interpretation of Deviations from Pseudo-First-Order Kinetic Behavior in the Characterization of Ligand Binding by Biosensor Technology," <i>Analytical Biochemistry</i> , 236:275-283 (1996)	
	A196	O'SHANNESSY, D., "Determination of Kinetic Rate and Equilibrium Binding Constants for Macromolecular Interactions: a Critique of the Surface Plasmon Resonance Literature," <i>Current Opinions in Biotechnology</i> , 5:65-71 (1994)	
	A197	OKADA, <i>et al.</i> , "Gene Therapy Against an Experimental Glioma Using Adeno-Associated Virus Vectors," <i>Gene Ther.</i> 3:957-964 (1996)	
	A198	OTWINOWSKI, "Maximum Likelihood refinement of heavy atom parameters." Daresbury, United Kingdom, 80-86 (1991)	
	A199	OWICKI <i>et al.</i> , "Application of Fluorescence Polarization Assays in High-Throughput Screening," <i>Genetic Engineering News</i> 17:27 (1997)	
	A200	PARKER <i>et al.</i> , "Development of High Throughput Screening Assays Using Fluorescence Polarization: Nuclear Receptor-Ligand-Binding and Kinase/Phosphatase Assays," <i>J Biomol Screen</i> 5:77-88 (2000)	
✓ NN	A201	PERRIN, D., "Nucleic Acids for Recognition and Catalysis: Landmarks, Limitations, and Looking to the Future," <i>Combinatorial Chemistry & High Throughput Screening</i> 3:243-269 (2000)	

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NN	A202	PFLUGRATH <i>et al.</i> , "Crystal Structure Determination, Refinement and the Molecular Model of the x-Amylase Inhibitor Hoe-467A," <i>J. Mol. Biol.</i> 189:383-386 (1986)	
	A203	PLUNKETT and ELLMAN, "A Silicon-Based Linker for Traceless Solid-Phase Synthesis," <i>J. Org. Chem.</i> 60:6006-6007 (1995)	
	A204	POLTE and HANKS, "Interaction Between Focal Adhesion Kinase and Crk-Associated Tyrosine Kinase Substrate p130 ^{Cas} ," <i>Proc Natl Acad Sci U.S.A.</i> , 92:10678-10682 (1995)	
	A205	POUL, <i>et al.</i> , "Selection of Tumor-Specific Internalizing Human Antibodies from Phage Libraries," <i>Journal of Molecular Biology</i> 301:1149-1161 (2000)	
	A206	PRICE <i>et al.</i> , "Summary Report on the ISOBM TD-4 Workshop: Analysis of 56 Monoclonal Antibodies Against the MUC1 Mucin," <i>Tumour Biology</i> 19(1):1-20 (1998)	
	A207	RAINIO <i>et al.</i> , "Transcriptional Activity of NFATc1 is Enhanced by the Pim-1 Kinase," <i>Cutting Edge, The Journal of Immunology</i> 1524-1527 (2001)	
	A208	RIDLEY and HALL, "Signal Transduction Pathways Regulating Rho-Mediated Stress Fibre Formation: Requirement For a Tyrosine Kinase," <i>The EMBO Journal</i> 13(11):2600-2610 (1994)	
NN	A209	ROBERTS <i>et al.</i> , "Generation of an Antibody With Enhanced Affinity and Specificity For Its Antigen by Protein Engineering," <i>Nature</i> 328:731-734 (1987)	

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		Filing Date	09/16/2003		
		First Named Inventor	Ryan BREMER		
		Group Art Unit			
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NN	A210	RODRIGUEZ-PENA, <i>et al.</i> , "Rapid Dephosphorylation of A Mr 80000 Protein, a Specific Substrate of Protein Kinase C Upon Removal of Phorbol Esters, Bombesin and Vasopressin," <i>Biochemical and Biophysical Research Communication</i> 140(1):379-385 (1986)	
	A211	ROSENFELD, M., "Human Artificial Chromosomes Get Real," <i>Nat. Genet.</i> 15:333-335 (1997)	
	A212	SAIKI, R., "Amplification of Genomic DNA," <i>PCR Protocols</i> 13-20 (1990)	
	A213	SAMBROOK <i>et al.</i> , "Introduction of Recombinant Vectors into Mammalian Cells," <i>Molecular Cloning</i> 2 nd Ed., 16.30-16.37 (1989)	
	A214	SARIS <i>et al.</i> , "The <i>pim-1</i> Oncogene Encodes Two Related Protein-Serine/Threonine Kinases by Alternative Initiation at AUG and CUG," <i>The EMBO Journal</i> 10(3):655-664 (1991)	
	A215	SASAKI <i>et al.</i> , "Cloning and Characterization of Cell Adhesion Kinase β , a Novel Protein-Tyrosine Kinase of the Focal Adhesion Kinase Subfamily," <i>J Biol Chem.</i> 270:21206-21219 (1995)	
	A216	SCHALLER <i>et al.</i> , "Autonomous Expression of a Noncatalytic Domain of the Focal Adhesion-Associated Protein Tyrosine Kinase pp125 ^{FAK} ," <i>Mol. Cell. Biol.</i> 13(2):785-791 (1993)	
NN	A217	SCHALLER, <i>et al.</i> , "pp125 ^{FAK} , a Structurally Distinctive Protein-Tyrosine Kinase Associated with Focal Adhesions," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 89:5192-5196 (1992)	

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NN	A218	SCHLAEPFER <i>et al.</i> , "Signaling Through Focal Adhesion Kinase," <i>Prog in Biophys Mol Biol</i> , 71:435-478 (1999)		
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	A220	SCHNEIDER <i>et al.</i> , "Functional Purification of a Bacterial ATP-Binding Cassette Transporter Protein (MalK) From the Cytoplasmic Fraction of an Overproducing Strain," <i>Protein Expr. Purif.</i> 6435:10 (1995)		
	A221	SCHREY, <i>et al.</i> , "Bombesin and Glucocorticoids Stimulate Human Breast Cancer Cells to Produce Endothelin, a Paracrine Mitogen for Breast Stromal Cells," <i>Cancer Research</i> 52:1786-1790 (1992)		
	A222	SCHUHMANN, <i>et al.</i> , "Immobilization of Enzymes on Langmuir-Blodgett Films Via a Membrane-Bound Receptor. Possible Applications for Amperometric Biosensors," <i>Adv. Mater.</i> 3:388-391 (1991)		
	A223	SCHUMMER, <i>et al.</i> , "Inexpensive Handheld Device For the Construction of High-Density Nucleic Acid Arrays," <i>Biotechniques</i> 23:1087-1092 (1997)		
	A224	SCHWEIZER and HINDSGAUL, "Combinatorial Synthesis of Carbohydrates," <i>Curr Opin Chem Biol</i> 3(3):291-298 (1999)		
NN	A225	SELVIN <i>et al.</i> , "Fluorescence Resonance Energy Transfer," <i>Meth. Enzymol.</i> 246:300-345 (1995)		

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NN	A226	SHATTIL <i>et al.</i> , "Tyrosine Phosphorylation of pp125 ^{FAK} in Platelets Requires Coordinated Signaling Through Integrin and Agonist Receptors," <i>J. Biol. Chem.</i> 269(20):14738-14745 (1994)		
	A227	SHEETS <i>et al.</i> , "Efficient Construction of a Large Nonimmune Phage Antibody Library: The Production of High-Affinity Human Single-Chain Antibodies to Protein Antigens" (published erratum) <i>Proc Natl Acad Sci USA</i> 1999 96:795 (1998)		
	A228	SHIROGANE <i>et al.</i> , "Synergistic Roles for Pim-1 and c-Myc in STAT3-Mediated Cell Cycle Progression and Antiapoptosis," <i>Immunity</i> 11:709-719 (1999)		
	A229	SIEGEL <i>et al.</i> , "Mass Spectral Analysis of a Protein Complex Using Single-Chain Antibodies Selected on a Peptide Target: Applications to Functional Genomics," <i>Journal of Molecular Biology</i> 302:285-93 (2000)		
	A230	SIGAL <i>et al.</i> , "A Self-Assembled Monolayer for the Binding and Study of Histidine-Tagged Proteins by Surface Plasmon Resonance," <i>Anal. Chem.</i> 68:490-497 (1996)		
	A231	SMITH, <i>et al.</i> , "Necklace-Coded Polymer-Supported Combinatorial Synthesis of 2-Arylamino benzimidazoles," <i>J. Comb. Chem.</i> 1:368-370 (1999)		
NN	A232	SOLINAS-TOLDO <i>et al.</i> , "Matrix -Based Comparative Genomic Hybridization: Biochips to Screen for Genomic Imbalances," <i>Genes, Chromosomes & Cancer</i> 20:399-407 (1997)		
	A233	TAYLOR <i>et al.</i> , "The Rapid Generation of Oligonucleotide-Directed Mutations at High Frequency Using Phosphorothioate-Modified DNA," <i>Nucl. Acids Res.</i> 13:8764-8785 (1985)		

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NN	A234	TEMPLE <i>et al.</i> , "Microarray Analysis of Eosinophils Reveals a Number of Candidate Survival and Spoptosis Genes," <i>Am. J. Respir. Cell Mol. Biol.</i> 25:425-433 (2001)	
	A235	ULLRICH and SCHLESSINGER, "Signal Transduction by Receptors With Tyrosine Kinase Activity," <i>Cell</i> , 61:203-212 (1990)	
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	A237	VAN DER HOUVEN <i>et al.</i> , "X-Ray-Induced Lymphomagenesis in Eμ- <i>pim</i> -1 Transgenic Mice: An Investigation of the Co-Operating Molecular Events," <i>Carcinogenesis</i> 19(5):847-853 (1998)	
	A238	VAN LOHUIZEN <i>et al.</i> , "Predisposition to Lymphomagenesis in <i>pim</i> -1 Transgenic Mice: Cooperation with <i>c-myc</i> and <i>N-myc</i> in Murine Leukemia Virus-Induced Tumors," <i>Cell</i> 56:673-682 (1989)	
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	A240	VELY <i>et al.</i> , "BIAcore [®] Analysis to Test Phosphopeptide-SH2 Domain Interactions," <i>Methods in Molecular Biology</i> 121:313-21 (2000)	
NN	A241	VERBEEK <i>et al.</i> , "Mice Bearing the Eμ- <i>myc</i> and Eμ- <i>pim</i> -1 Transgenes Develop Pre-B-Cell Leukemia Prenatally," <i>Molecular and Cellular Biology</i> 11(2):1176-1179 (1991)	

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NN	A242	WANG <i>et al.</i> , "Pim-1 Negatively Regulates the Activity of PTP-U2S Phosphatase and Influences Terminal Differentiation and Apoptosis of Monoblastoid Leukemia Cells," <i>Archives of Biochemistry and Biophysics</i> , 390(1):9-18 (2001)	
	A243	WEBER, P., "Physical Principles of Protein Crystallization," <i>Adv. Protein Chem.</i> 41:1-36 (1991)	
	A244	WESSJOHANN, "Synthesis of Natural-Product-Based Compound Libraries," <i>Curr Opin Chem Biol</i> 4(3):303-9 (2000)	
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	A246	WILK-BLASZCZAK <i>et al.</i> , "Bradykinin Modulates Potassium and Calcium Currents in Neuroblastoma Hybrid Cells Via Different Pertussis Toxin-Insensitive Pathways," <i>Neuron</i> 12:109-116 (1994)	
	A247	WILLIAMS <i>et al.</i> , "Dissection of Extracellular Human Interferon γ Receptor α -Chain Into Two Immunoglobulin-Like Domains. Production in an Escherichia coli Thioredoxin Gene Fusion Expression System and Recognition by Neutralizing Antibodies," <i>Biochemistry</i> 34:1787-1797 (1995)	
	A248	WOON <i>et al.</i> , "Construction and Characterization of a 10-Fold Genome Equivalent Rat P1-Derived Artificial Chromosome Library," <i>Genomics</i> 50:306-316 (1998)	
NN	A249	XIONG and PARSONS, "Induction of Apoptosis After Expression of PYK2, a Tyrosine Kinase Structurally Related to Focal Adhesion Kinase," <i>J Cell Biol.</i> 139:529-539 (1997)	

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NN	A250	ZHU <i>et al.</i> , "CD40 Signaling in B Cells Regulates the Expression of the Pim 1 Kinase Via the NF-κB Pathway," <i>The Journal of Immunology</i> 168:744-754 (2002)	

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